



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D3338-1

Job Sheet 175682



Part No: D3338-1

Job Qty: 40 ea

Part Name: Mounting Lug



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/10/18

Job Tracking No:

Due Date: 7/3/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A IPP: A 05.02.09 New issue KJ/JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	40 Ea		7/2/18	0.00	0.00	Start Up Container		AT 18/06/18
110	Purchasing	40 pcs		7/2/18	0.00	0.00	Purchasing		AT 18/06/18
120	Packaging	40 pcs		7/2/18	0.00	0.00	Packaging2		AT 18/06/18
130	QC	40 pcs		7/2/18	0.00	0.00	QC6		JUN 14 2018
140	HandFinish	40 pcs		7/2/18	0.00	0.69	HandFinish1		9-89
150	QC	40 pcs		7/2/18	0.00	0.00	QC7-2		
160	Powdercoat	40 pcs		7/3/18	0.00	0.32	Powdercoat1		
170	QC	40 pcs		7/3/18	0.00	0.00	QC3		
175	Packaging	40 pcs		7/3/18	0.00	0.00	Packaging3-1	ST527	18-6-17
180	QC21-SA	40 Ea		7/3/18	0.00	0.00	QC21		21 1806-18

Part Op 110 - Issue PO 39566 1- Check for extrusion defects while loading into the machine 2- Machine as per Folio
Descriptions: FA506 and Dwg D3338
150 - START TIME: _____
APR 10 2018
13
9-89

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2423	Lug Extrusion	2.8000 ft (.07 ea)	90-Start up Operation	5080373
D3338-1P	Mounting Lug	40 pcs (1 ea)	90-Start up Operation	5080367

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D2423	3	753	0
	D3338-1P	40	0	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Mounting Log	4.450inches ± 0.010	4.460 4.440		
2	Mounting Log	0.306inches ± 0.010	0.316 0.296		
3	Mounting Log	2.200inches ± 0.030	2.230 2.170		
4	Mounting Log	0.735inches ± 0.010	0.745		

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																																																	
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																																																	
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																																																	
Large Fab ☐	Composite ☐	Supplier ☐																																																																		
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval _____																																																																
Description Work Order Deviation 				Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																																																
Root Cause <table style="width:100%; border: none;"> <tr><td style="border: none;">Environment ☐</td><td style="border: none;">No Re-verification ☐</td></tr> <tr><td style="border: none;">Design ☐</td><td style="border: none;">Operator ☐</td></tr> <tr><td style="border: none;">Doc/Data ☐</td><td style="border: none;">Offset/Setup ☐</td></tr> <tr><td style="border: none;">Equip/Tooling ☐</td><td style="border: none;">Supplier ☐</td></tr> <tr><td style="border: none;">Handling/Pre ☐</td><td style="border: none;">Training ☐</td></tr> <tr><td style="border: none;">Material ☐</td><td style="border: none;">Use for Testing ☐</td></tr> <tr><td style="border: none;">Internal Transport ☐</td><td style="border: none;">Poor Information ☐</td></tr> <tr><td style="border: none;">Tribal Knowledge ☐</td><td style="border: none;">Rushing ☐</td></tr> <tr><td style="border: none;">LOA ☐</td><td style="border: none;">Product Improvement ☐</td></tr> <tr><td style="border: none;">Substation ☐</td><td style="border: none;">Process Improvement ☐</td></tr> <tr><td style="border: none;">Past Expiry Date ☐</td><td style="border: none;">Manufacturing Process ☐</td></tr> <tr><td style="border: none;">Misidentified ☐</td><td style="border: none;">Past Due ☐</td></tr> </table>		Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	 Container No: S080379 Part: D3338-1 Job No: 175682 Serial No/Batch: S080379 Revision: _____ Inspector: _____ Exp Date: _____ Instructions: _____ <table style="width:100%; border: none;"> <tr> <td style="border: none;">☐ Heat Treat</td> <td style="border: none;">☐ Countersink</td> <td style="border: none;">☐ Out of Sequence</td> <td style="border: none;">☐ Positioned Wrong</td> </tr> <tr> <td style="border: none;">☐ Wave/Twist in Tube</td> <td style="border: none;">☐ Cut Too Short</td> <td style="border: none;">☐ Off-set</td> <td style="border: none;">☐ Outside Dimensions</td> </tr> <tr> <td style="border: none;">☐ Marks/Chatter</td> <td style="border: none;">☐ Instructions Incomplete/Unclear</td> <td style="border: none;">☐ Mislabeled</td> <td style="border: none;">☐ Over/Under tolerance</td> </tr> <tr> <td></td> <td style="border: none;">☐ Drill Holes</td> <td style="border: none;">☐ Fit/Function</td> <td style="border: none;">☐ Part Incorrect</td> </tr> <tr> <td></td> <td></td> <td style="border: none;">☐ Misaligned/off center</td> <td style="border: none;">☐ Part Lost/Missing</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="border: none;">☐ Part Moved</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="border: none;">☐ Drawing</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="border: none;">☐ Finish</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="border: none;">☐ Misread</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="border: none;">☐ Turning Sequence</td> </tr> </table>			☐ Heat Treat	☐ Countersink	☐ Out of Sequence	☐ Positioned Wrong	☐ Wave/Twist in Tube	☐ Cut Too Short	☐ Off-set	☐ Outside Dimensions	☐ Marks/Chatter	☐ Instructions Incomplete/Unclear	☐ Mislabeled	☐ Over/Under tolerance		☐ Drill Holes	☐ Fit/Function	☐ Part Incorrect			☐ Misaligned/off center	☐ Part Lost/Missing				☐ Part Moved				☐ Drawing				☐ Finish				☐ Misread				☐ Turning Sequence
Environment ☐	No Re-verification ☐																																																																			
Design ☐	Operator ☐																																																																			
Doc/Data ☐	Offset/Setup ☐																																																																			
Equip/Tooling ☐	Supplier ☐																																																																			
Handling/Pre ☐	Training ☐																																																																			
Material ☐	Use for Testing ☐																																																																			
Internal Transport ☐	Poor Information ☐																																																																			
Tribal Knowledge ☐	Rushing ☐																																																																			
LOA ☐	Product Improvement ☐																																																																			
Substation ☐	Process Improvement ☐																																																																			
Past Expiry Date ☐	Manufacturing Process ☐																																																																			
Misidentified ☐	Past Due ☐																																																																			
☐ Heat Treat	☐ Countersink	☐ Out of Sequence	☐ Positioned Wrong																																																																	
☐ Wave/Twist in Tube	☐ Cut Too Short	☐ Off-set	☐ Outside Dimensions																																																																	
☐ Marks/Chatter	☐ Instructions Incomplete/Unclear	☐ Mislabeled	☐ Over/Under tolerance																																																																	
	☐ Drill Holes	☐ Fit/Function	☐ Part Incorrect																																																																	
		☐ Misaligned/off center	☐ Part Lost/Missing																																																																	
			☐ Part Moved																																																																	
			☐ Drawing																																																																	
			☐ Finish																																																																	
			☐ Misread																																																																	
			☐ Turning Sequence																																																																	
OTHER : _____																																																																				

12/11 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 CANADA
 TEL: 1 613 632-5200
 Email: sales@dartaero.com
 www.dartaerospace.com

Date: 06/12/18

			0.725
5	Mounting Log	0.250inches $\pm$ 0.010	0.260 0.240
6	Mounting Log	0.400inches $\pm$ 0.010	0.410 0.390
7	Mounting Log	1.200inches $\pm$ 0.010	1.210 1.190
8	Mounting Log	3.700inches $\pm$ 0.005	3.705 3.695
9	Mounting Log	0.375inches $\pm$ 0.010	0.385 0.365
10	Mounting Log	0.750inches $\pm$ 0.010	0.760 0.740
11	Mounting Log	0.257inches + 0.005 - 0.000	0.262 0.257

Plex 4/10/18 9:13 AM Dart.lajeunesse.marie

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

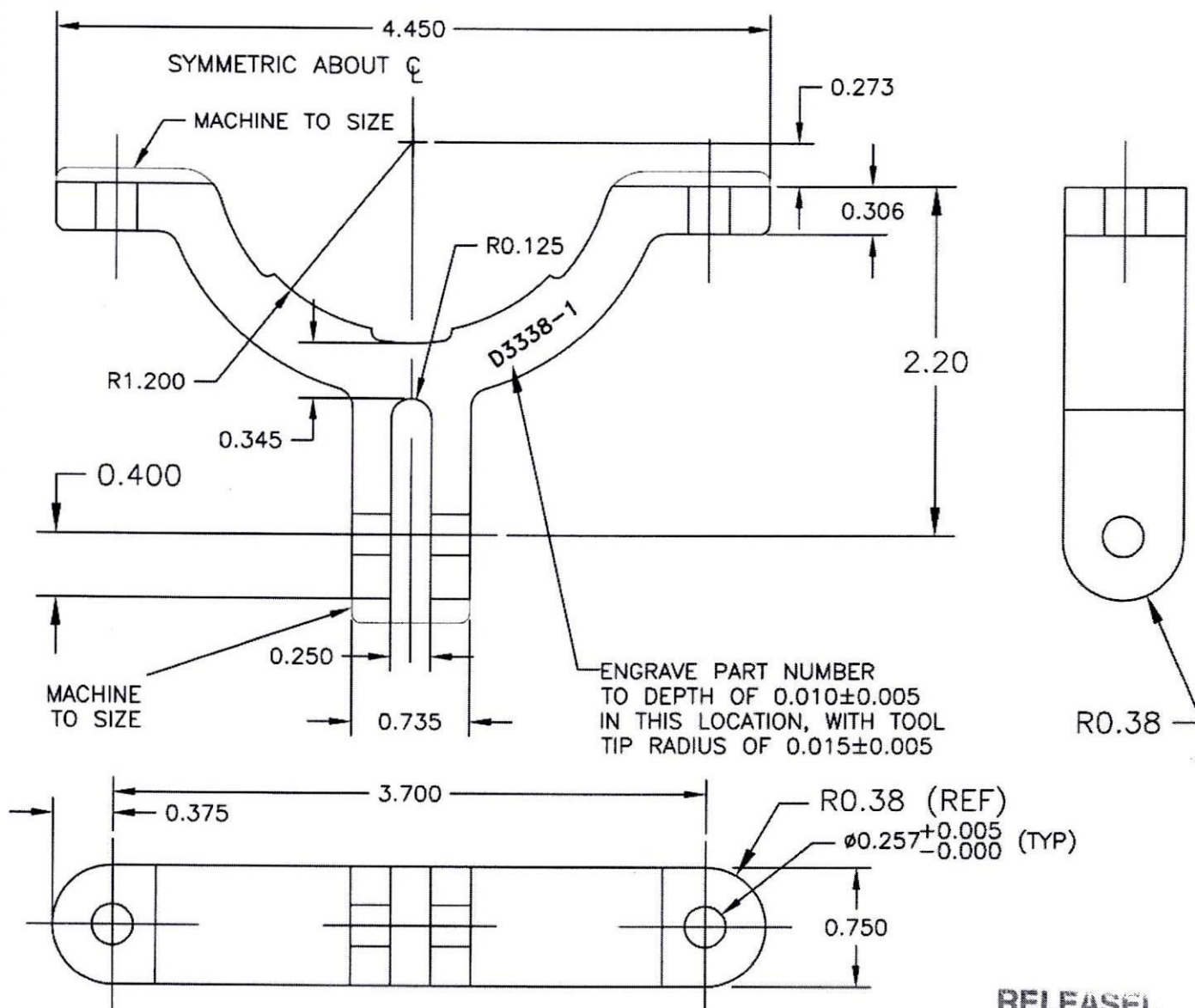
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

DART

DESIGN PH	DRAWN BY PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. D3338	REV. A SHEET 1 OF 1
DATE 04.11.03	TITLE MOUNTING LUG		SCALE 1:1
A	04.11.03	NEW ISSUE	

**D3338-1 NOTES**

- 1) MAKE FROM EXTRUSION D2423
- 2) BREAK ALL EDGES 0.000-0.015
- 3) FINISH: ACID ETCH AND ALODINE PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

RELEASE

04.12.16

Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER :					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039566**

Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO039566

PO Date: 4/10/18

Due Date: 5/24/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

E-MAILED
APR 10 2018

Items

Line Item	Part	Supplier Part No	Item No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	D2230-3P			Lug As Per Dwg D2230 Rev. G Alodine and Paint as per QSI005	Firmed	5/24/18	160 pcs	0 pcs	160 pcs	\$13.80/pcs	\$2,208.00
Line Item Note job no. 175615											
2	D3338-1P			Mounting Lug AS PER DWG D3338 REV. A Alodine and Paint as per QSI005	Firmed	5/24/18	40 pcs	0 pcs	40 pcs	\$20.60/pcs	\$824.00
Line Item Note job no. 175682											
Grand Total:										\$3,032.00	

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Plex 4/10/18 12:31 PM dart.lavoie.chantal

**METAL TECHNOLOGY INC.**

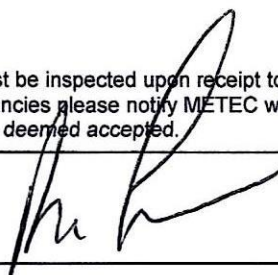
20 Terry Fox Drive
Vankleek Hill, Ontario K0B 1R0 , Canada
Tel: (613) 678-3957
Fax: (613) 678-3956

Delivery Slip No.: 22779

Date: Jun 07, 2018

Page: 1

Sold to:	Ship to:
Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7	Dart Aerospace Ltd. Att. Linda Lacelle 1270 Aberdeen Street Hawkesbury, Ontario K6A 1K7
Order No.: PO039566	Sold By: Walz, Christian D.
Shipped By: pick up	Ship Date: Jun 07, 2018

Description	Bin Loc	Unit	Quantity ordered	Quantity shipped	Quantity on B/O
D2230-3 Mounting Lug alodined and painted as per QSI005		Each	160	160	
D3338-1 Mounting Lug alodined and painted as per QSI005		Each	40	40	
8818-6-12.					
JUN 14 2018					
DAS 11 9-89					
The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.					
Received by 		Thank you for your order!			



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>PART NAME</u>	<u>P.O. NUMBER</u>
40	D3338-1	Mounting Lug	39566
	Paint Batch # 22079 / Material Batch # 160522		
160	D2230-3	Mounting Lug	39566
	Paint Batch # 22079 / Material Batch # 160522		

DAS
1
19

JUN 14 2018

MATERIAL: supplied by DART

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

Heather Nixon

Vankleek Hill, June 7, 2018